

CLAIMS:

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5 1. An apparatus having an electroacoustic transducer, which has a magnet system which generates a useful magnetic field in a useful field area and which generates a stray magnetic field in a stray field area, and which magnet system is used to realize vibration generating means for the generation of vibrations which are perceptible by a user of the apparatus, wherein the vibration generating means include, in addition to the magnet system of the transducer, at least one movably mounted vibration generating coil arranged in the area of the stray field generated by means of the magnet system of the transducer.

10 2. An apparatus as claimed in claim 1, wherein the vibration generating means include two movably mounted vibration generating coils arranged in the stray field area, and the two vibration generating coils are arranged in series opposition or in anti-parallel.

15 3. An apparatus as claimed in claim 1, wherein the vibration generating means include, in addition to the at least one vibration generating coil, a metal part which is mechanically connected to the at least one vibration generating coil and which consists of a soft-magnetic material.

20 4. An apparatus as claimed in claim 1, wherein the magnet system is basically ring-shaped, and the magnet system generates the stray magnetic field, which emanates from its outer peripheral area, and the at least one vibration generating coil is annular and is arranged to be coaxial with the axis of the magnet system and is mounted so as to be movable parallel to the axis of the magnet system.

25 5. An apparatus as claimed in claim 1, wherein

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5 an a.c. generator has been provided, which generator is adapted to generate an a.c. signal having a frequency of, preferably, between 50 Hz and 200 Hz, and the a.c. generator is connected to the at least one vibration generating coil in an electrically conductive manner and supplies the a.c. signal generated by it to the at least one vibration generating coil.

6. An electroacoustic transducer, which has a magnet system which generates a useful magnetic field in a useful field area and which generates a stray magnetic field in a stray field area, and which magnet system is used to realize vibration generating means for the generation of vibrations which are perceptible by a user of the apparatus, wherein the vibration generating means include, in addition to the magnet system of the transducer, at least one movably mounted vibration generating coil arranged in the area of the stray field generated by means of the magnet system of the transducer.

7. An electroacoustic transducer as claimed in claim 6, wherein the vibration generating means include two movably mounted vibration generating coils arranged in the stray field area, and the two vibration generating coils are arranged in series opposition or in anti-parallel.

8. An electroacoustic transducer as claimed in claim 6, wherein the vibration generating means include, in addition to the at least one vibration generating coil, a metal part which is mechanically connected to the at least one vibration generating coil and which consists of a soft-magnetic material.

9. An electroacoustic transducer as claimed in claim 6, wherein the magnet system is basically ring-shaped, and the magnet system generates the stray magnetic field, which emanates from its outer peripheral area, and the at least one vibration generating coil is annular and is arranged to be coaxial with the axis of the magnet system and is mounted so as to be movable parallel to the axis of the magnet system.

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